

## The big technology for small offices



- **Evolutionary no-risk cross-company call routing.** Maximizes savings and guarantees clear calls
- **Exceptional voice quality — with every call.** Smart quality-driven automatic call switching
- **Fully user transparent.** No change in dialing habits. No user retraining
- **Self-contained operation.** Integrated router and Ethernet switch for efficient transport of voice, fax and data over a single channel
- **Always up.** Built-in path redundancy ensures instant access to the PSTN (public switched telephone network) at any time
- **Fully secure**

## The close-at-hand communication solution for far-flung locations

The BOSâNOVA ROBO is a compact, combination call and data routing solution designed to meet the unique needs of remote and branch offices. It turns any two-line analog office phone system into a feature-rich converged voice/fax/data communication network. Fully secure with the BOSâNOVA Blue Seal Security Lock™, BOSâNOVA ROBO is simple to install, easy to maintain and completely user-transparent. The ROBO has numbering plan support compatible with all BOSâNOVA gateways and the BOSâNOVA Connect, and allows flexible port configuration for traditional FXS or FXO functionality.

The ROBO provides LAN switching, WAN routing, and VoIP in one small-footprint package. The unit features a built-in router with NAT-enabled firewall, a highly functional integrated 4-port 10/100 Ethernet switch, and a built-in DHCP (dynamic host configuration protocol) server for ease of configuration.

### Smart Move

As part of the BOSâNOVA Claro family of networked telephony solutions, the ROBO provides guaranteed carrier-grade voice quality connections at maximized cost savings. BOSâNOVA Claro gateways employ a smart selective routing mechanism that automatically routes voice traffic over either the IP network or the PSTN. Whenever the IP network supports carrier-grade QoS (quality of service) — a user-defined parameter continuously monitored by BOSâNOVA gateways —

the call is placed over the IP network. When a BOSâNOVA Claro detects quality below this tolerance level, the call is automatically routed over the PSTN. BOSâNOVA Claro's smart voice traffic routing ensures carrier-grade reliability, availability, and voice quality of each call, on a call-by-call basis.

### Smart Call

Smart calls are realized entirely without user intervention. Users require no retraining, since dialing across the IP network is precisely the same as dialing via the PBX network, with no special code or discretionary access prefix for IP selection. Users don't need to remember to select or de-select IP routing — a Claro does it transparently, and without PBX reprogramming.

### Clear Connections

No matter what, you can always make a carrier-grade quality phone call. And no matter the distance, you'll sound like you're "right next door." Voice quality is optimized through BOSâNOVA proprietary algorithms that enhance QoS, including an adaptive, dynamic jitter buffer that reduces delays and improves performance, echo cancellation to perfect overall voice quality and redundant packet routing to minimize packet loss.

### Guaranteed Service

Carrier-grade reliability and availability are a given with BOSâNOVA ROBO. Power failures don't cause telephony failures: calls instantly and automatically connect to the PSTN. Calls to emergency (999, 911) or other special

## BOSâNOVA® ROBO

PSTN numbers (411) automatically pass through. So, no matter what the circumstance, you're guaranteed telephone service.

### Safe Call

Distinguished by multiple protection levels, BOSâNOVA ROBO provides unparalleled security. Authentication at both gateway level and call level protect against toll fraud, while Secure Shell (SSH™) server software and proprietary protocols provide encryption during remote management. The BOSâNOVA Blue Seal Security Lock — a mechanical lock on the gateway that controls the internal firewall — offers fully secure operation.

Additionally, BOSâNOVA Gateways uniquely offer voice and signaling encryption, so that even over the public Internet, total call privacy is assured.

### BOSâNOVA Claro Value

Because it's a BOSâNOVA, the ROBO is a snap to install, fast to deploy, and easy to configure. BOSâNOVA Gateways provide browser-based GUIs and color-coded support tools that make it all simple — from set-up to call analysis. And because it's a Claro, the ROBO affords risk-free VoIP — guaranteed carrier-grade quality of service at the lowest cost

*The smart move to smart calls*

### Benefits

### Telephony / Network Features

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|--|---|
| <ul style="list-style-type: none"> <li>• Maximized savings</li> </ul>                          | <ul style="list-style-type: none"> <li>• Fully compatible with all vendor legacy systems and infrastructure</li> <li>• No modification to existing PBX or phones; No additional voice card or extensions needed</li> <li>• Toll-free call transfer between branch offices</li> <li>• Hop-off support converts long distance calls (to non-company numbers) to local calls</li> <li>• NAT (network address translation) support, enabling multiple users to access the Internet via a single, shared IP address</li> <li>• Built-in router with NAT firewall</li> <li>• Built-in four-port 10/100 Ethernet switch</li> <li>• Built-in DHCP server</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Quality connections</li> <li>• Always up</li> </ul>   | <ul style="list-style-type: none"> <li>• Automatic switching to PSTN according to user-specified QoS tolerance levels</li> <li>• Physical connection to PSTN in case of power or gateway failure</li> <li>• Automatic pass through of calls to PSTN for numbers that cannot be terminated using IP Telephony network (emergency, information, etc.)</li> <li>• Support of multiple voice compression protocols; proprietary dynamic, adaptive jitter buffer to improve latency; redundant packet routing to minimize packet loss</li> </ul>   |
| <ul style="list-style-type: none"> <li>• Fully user-transparent</li> </ul>                     | <ul style="list-style-type: none"> <li>• No change in dialing habits — use of existing organization phone numbers and codes through public, private and abbreviated dial plan support; rule-based numbering management (RBNM)</li> <li>• “Native” dialing — no special access code for IP routing</li> </ul>  |
| <ul style="list-style-type: none"> <li>• Easy</li> <li>• Flexible</li> <li>• Robust</li> </ul> | <ul style="list-style-type: none"> <li>• Simple, centralized, secure browser-based remote administration</li> <li>• Connects to any PBX without the need for reprogramming</li> <li>• Ports independently configurable for Claro, FXS, or FXO functionality</li> <li>• Self-installation of gateways into the gateway constellation network</li> <li>• Real-time CDR (call detail record) reporting</li> <li>• Numbering plan support compatible with all BOSâNOVA Gateways and BOSâNOVA Connect</li> <li>• Interoperable with H.323 and SIP-supported devices</li> <li>• Dynamic voice protocol determination and ability for concurrent calls to use either protocol</li> <li>• No need for gatekeeper, no single point of network failure</li> </ul> |
| <ul style="list-style-type: none"> <li>• Fully secure</li> </ul>                               | <ul style="list-style-type: none"> <li>• SSH and proprietary encryption during remote management</li> <li>• Gateway level/call level authentication protects against toll fraud</li> <li>• Blue Seal Security Lock engages settings of embedded firewall</li> <li>• AES encryption for voice and signaling</li> </ul>   |

IP TELEPHONY  
Clear & Simple



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